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| APPLICATION NO.         | FI       | LING DATE     | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.     | CONFIRMATION NO. |  |
|-------------------------|----------|---------------|----------------------|-------------------------|------------------|--|
| 09/805,188 03/14/2001   |          | 03/14/2001    | Hiroshi Morioka      | 501.30598CC3            | 2601             |  |
| 20457                   | 7590     | 08/26/2002    |                      |                         |                  |  |
|                         |          | RY STOUT AND  | EXAMINER             |                         |                  |  |
| SUITE 1800<br>1300 NORT |          | TEENTH STREET | NGUYEN, TU T         |                         |                  |  |
| ARLINGTO                | ON, VA 2 | 2209          |                      | ART UNIT                | PAPER NUMBER     |  |
|                         |          |               | 2877                 |                         |                  |  |
|                         |          |               |                      | DATE MAILED: 08/26/2002 |                  |  |

Please find below and/or attached an Office communication concerning this application or proceeding.

|   |  |                             |                 | •  | NE         |  |  |  |  |  |
|---|--|-----------------------------|-----------------|--|------------|--|--|--|--|--|
|   |  | Applicat                    | tion No.        | Applicant(s)   |            |  |  |  |  |  |
|   |  | 09/805,                     | 188             | MORIOKA ET AL.   | · <b>1</b> |  |  |  |  |  |
| Office Action Summary   |  |                             | r .             | Art Unit   |            |  |  |  |  |  |
|   |  | Tu T Ng                     | =               | 2877   |            |  |  |  |  |  |
|   | The MAILING DATE of this communication app ars on the cover sh t with the correspondenc address<br>Period for Reply      |                             |                 |  |            |  |  |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status |  |                             |                 |  |            |  |  |  |  |  |
| 1)🛛   | Responsive to communication(s) fi  | iled on <u>07 June 2002</u> | 2.              |  |            |  |  |  |  |  |
| 2a) <u></u> □   | This action is FINAL.  | 2b)⊠ This action i          | s non-final.    |  |            |  |  |  |  |  |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims   |  |                             |                 |  |            |  |  |  |  |  |
| 4)  | Claim(s) is/are pending in the   | e application.              |                 |  |            |  |  |  |  |  |
|   | 4a) Of the above claim(s) is/a   | are withdrawn from c        | onsideration.   |  |            |  |  |  |  |  |
| 5)  | Claim(s) is/are allowed.   |                             |                 |  |            |  |  |  |  |  |
| 6) 🗌  | 6) ☐ Claim(s) is/are rejected.   |                             |                 |  |            |  |  |  |  |  |
| 7)  | 7) ☐ Claim(s) is/are objected to.  |                             |                 |  |            |  |  |  |  |  |
| 8) Claim(s) 1-27 are subject to restriction and/or election requirement.  |  |                             |                 |  |            |  |  |  |  |  |
| Applicati   | on Papers  |                             |                 |  |            |  |  |  |  |  |
| 9) The specification is objected to by the Examiner.  |  |                             |                 |  |            |  |  |  |  |  |
| 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  |  |                             |                 |  |            |  |  |  |  |  |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).   |  |                             |                 |  |            |  |  |  |  |  |
| 11) 🔲 🗀   | The proposed drawing correction file   |                             |                 | sapproved by the Examin                                    | er.        |  |  |  |  |  |
| If approved, corrected drawings are required in reply to this Office action.  |  |                             |                 |  |            |  |  |  |  |  |
| 12) 🔲 -   | The oath or declaration is objected to   | o by the Examiner.          |                 |  |            |  |  |  |  |  |
| •   | ınder 35 U.S.C. §§ 119 and 120   |                             |                 |  |            |  |  |  |  |  |
| 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).   |  |                             |                 |  |            |  |  |  |  |  |
| a)[   | All b) Some * c) None of:  |                             |                 |  |            |  |  |  |  |  |
| 1. Certified copies of the priority documents have been received.   |  |                             |                 |  |            |  |  |  |  |  |
| 2. Certified copies of the priority documents have been received in Application No  |  |                             |                 |  |            |  |  |  |  |  |
| <ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>   |  |                             |                 |  |            |  |  |  |  |  |
| 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  |  |                             |                 |  |            |  |  |  |  |  |
| a) The translation of the foreign language provisional application has been received.   |  |                             |                 |  |            |  |  |  |  |  |
| ,   | Acknowledgment is made of a claim  | tor domestic priority       | under 35 U.S.C. | §§ 120 and/or 121.   |            |  |  |  |  |  |
| Attachment  | •  |                             | <b>.</b> □      |  | <i>c</i>   |  |  |  |  |  |
| 2) Notic  | e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (I nation Disclosure Statement(s) (PTO-1449) F |                             |                 | ummary (PTO-413) Paper No<br>formal Patent Application (PT |            |  |  |  |  |  |

Serial Number: 09/805,188

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Paper No: 9

## **Detailed Office Action**

The restriction requirement set forth on 04/08/2002 has been withdrawn in view of the newly added claims 26-27. However, a new restriction requirement is required as followed:

## Election/Restriction

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-3, 10-16, 20-25, drawn to detecting semiconductor defect and transporting the semiconductor between processing stations, classified in class 356, subclass 237.5.
- II. Claims 4-7, 17-19, drawn to adjusting the operation of the semiconductor fabrication line, classified in class 324, subclass 758.
- III. Claims 8-9, drawn to statistically recording defects, classified in class 356, subclass237.5.

Claims 26 links inventions group I and II. The restriction requirement between the linked inventions is subject to the nonallowance of the linking claim(s), claim 26. Upon the allowance of the linking claim(s), the restriction requirement as to the linked inventions shall be withdrawn and any claim(s) depending from or otherwise including all the limitations of the allowable linking claim(s) will be entitled to examination in the instant application. Applicant(s) are advised that if any such claim(s) depending from or including all the limitations of the allowable linking claim(s) is/are presented in a continuation or divisional application, the claims of the continuation or

divisional application may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Where a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. *In re Ziegler*, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

Claim 27 links inventions group I and III. The restriction requirement between the linked inventions is subject to the nonallowance of the linking claim(s), claim 27. Upon the allowance of the linking claim(s), the restriction requirement as to the linked inventions shall be withdrawn and any claim(s) depending from or otherwise including all the limitations of the allowable linking claim(s) will be entitled to examination in the instant application. Applicant(s) are advised that if any such claim(s) depending from or including all the limitations of the allowable linking claim(s) is/are presented in a continuation or divisional application, the claims of the continuation or divisional application may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Where a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. *In re Ziegler*, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

The inventions are distinct, each from the other because of the following reasons: Inventions group I and group II are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention group I and II has separate utility such as detecting defect in a semiconductor device; and adjusting semiconductor processing station to correct defects on semiconductor devices. See MPEP § 806.05(d).

Inventions group I and III, and group II and III are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination of group I and II as claimed does not require the particulars of the subcombination as claimed because detecting defect condition of a semiconductors of group I and II does not require a particular method of observing the distribution of the defects and performing the detection in real time of group III. The subcombination has separate utility such as recording defects statistically.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

## Response to Arguments

The traversal is on the ground that it would not create burden for the examiner. This is not found persuasive because claims in group I drawn to detecting the foreign particle on the wafer since detecting the foreign particles on the wafer does not relate to adjusting the operation of the

semiconductor in group II or statistically recording defects as in group III. Searching all group impose serious burden to the examiner. Since the cited references have been disqualified as a prior art, a new search must be conducted. Searching all the invention group I, II, III is a serious burden.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tu T Nguyen whose telephone number is (703) 306-9185. The examiner can normally be reached on M-T 7:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G Font can be reached on (703) 308-4881. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Tu Tuan Nguyen

- Ownguyer

Patent Examiner TC 2877

August 24, 2002/TTN